

09/266,935

\* \* \* \* \* STN Columbus \* \* \* \* \*

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\*\*\* YOU HAVE NEW MAIL \*\*\*

=> s (PCR or polymerase chain reaction) and review

L1 5642 (PCR OR POLYMERASE CHAIN REACTION) AND REVIEW

=> s (PCR or polymerase chain reaction)/ti and review

L2 347 (PCR OR POLYMERASE CHAIN REACTION)/TI AND REVIEW

=> s l2 and amino acid?

L3 8 L2 AND AMINO ACID?

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 8 DUP REM L3 (0 DUPLICATES REMOVED)

=> d l4 bib abs 1-8

L4 ANSWER 1 OF 8 USPATFULL

AN 1999:166788 USPATFULL

TI Salmonella identification by the **polymerase chain reaction**

IN Olsen, John Elmerdahl, Elmekrogen 4, DK-3500 Vaerlos, Denmark  
Aabo, Soren, Tokkerupvej 11, Tokkerup, DK-4320 Lejre, Denmark  
Rossen, Lone, Roskilde, Denmark  
Rasmussen, Ole Feldballe, Maaloev, Denmark

PA Olsen, John Elmerdahl, Vaerlos, Denmark (non-U.S. individual)  
Bioteknologisk Institut, Lyngby, Denmark (non-U.S. corporation)  
Aabo, Soren, Lejre, Denmark (non-U.S. individual)

PI US 6004747 19991221

WO 9500664 19950105

AI US 1996-564110 19960311 (8)

WO 1994-GB1316 19940617

19960311 PCT 371 date

19900311 PCT 102(e) date  
PRAI GB 1993-12508 19930617  
DT Utility  
EXNAM Primary Examiner: Horlick, Kenneth R.; Assistant Examiner: Tung, Joyce  
LREP Testa, Hurwitz & Thibeault, LLP  
CLMN Number of Claims: 21  
ECL Exemplary Claim: 1  
DRWN 8 Drawing Figure(s); 6 Drawing Page(s)  
LN.CNT 1152

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides nucleic acid molecules for the detection and identification of Salmonella species, methods for detecting one or more Salmonella serotypes using the nucleic acid molecules of the invention  
as probes or primers in DNA-based detection systems and kits for carrying out the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 8 USPATFULL  
AN 1998:134819 USPATFULL  
TI In situ recombinant **PCR** within single cells  
IN Embleton, Michael J., Nottingham, United Kingdom  
Gorochoy, Guy, Cambridge, United Kingdom  
Jones, Peter T., Cambridge, United Kingdom  
Winter, Gregory P., Cambridge, United Kingdom  
PA Medical Research Council, England (non-U.S. corporation)  
FI US 5830663 19981103  
WO 9303151 19930218  
AI US 1994-190199 19940713 (8)  
WO 1992-GB1483 19920810  
19940713 PCT 371 date  
19940713 PCT 102(e) date  
PRAI GB 1991-17352 19910810  
GB 1992-12419 19920611  
DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Fredman, Jeffrey  
LREP Cushman Darby & Cushman IP Group of Pillsbury Madison & Sutro  
CLMN Number of Claims: 10  
ECL Exemplary Claim: 1  
DRWN 19 Drawing Figure(s); 13 Drawing Page(s)  
LN.CNT 1925

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a method of treating a heterogeneous population of cells  
to link together copies of two or more nucleic acid sequences from at  
least some of the cells, the arrangement being such that copies of the DNA sequences from an individual cell are preferentially linked in the vicinity of the nucleic acid from which the copies are derived. Also disclosed are recombinant proteins expressed by the method of the invention and kits for performing said method.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 8 USPATFULL  
AN 1998:118970 USPATFULL  
TI **Polymerase chain reaction**/restriction  
fragment polymorphism method for the detection and typing of human papillomaviruses  
IN Silverstein, Saul J., Irvington, NY, United States  
Lungu, Octavian, New York, NY, United States  
Wright, Jr., Thomas C., Irvington, NY, United States  
PA The Trustees of Columbia University in the City of New York, New York, NY, United States (U.S. corporation)

AI US 1996-594600 19960131 (8)  
PLI Continuation of Ser. No. US 1994-255561, filed on 8 Jun 1994, now patented, Pat. No. US 5543294 which is a continuation of Ser. No. US 1992-916940, filed on 20 Jul 1992 which is a continuation-in-part of Ser. No. US 1991-733109, filed on 19 Jul 1991, now abandoned  
DT Utility  
EXNAM Primary Examiner: Ketter, James; Assistant Examiner: Brusca, John S.  
LREP White, John P.  
CLMN Number of Claims: 11  
ECL Exemplary Claim: 1  
DEWN 23 Drawing Figure(s); 10 Drawing Page(s)  
LN.CNT 2023

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides a method of typing a human papillomavirus in a patient infected by human papillomavirus which comprises: obtaining a sample containing DNA from the human papillomavirus to be typed; amplifying the L1 portion of the human papillomavirus DNA; treating the resulting amplified DNA with a plurality of predetermined restriction enzymes so as to produce restriction fragments; and analyzing the fragments so produces so as to type the human papillomavirus.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 8 USPATFULL  
AN 97:24905 USPATFULL  
TI **PCR** primers for detection of legionella species and methods for controlling visual intensity in hybridization assays  
IN Picone, Teresa K.H., Benicia, CA, United States  
McCallum, Theresa M., Pleasant Hill, CA, United States  
Zoccoli, Michael A., Moraga, CA, United States  
PA Hoffmann-La Roche Inc., Nutley, NJ, United States (U.S. corporation)  
PI US 5614388 19970325  
AI US 1995-455116 19950531 (8)  
FLI Continuation of Ser. No. US 1993-70328, filed on 27 May 1993, now patented, Pat. No. US 5491225 which is a continuation-in-part of Ser. No. US 1990-630899, filed on 20 Dec 1990, now abandoned  
DT Utility  
EXNAM Primary Examiner: Sisson, Bradley L.  
LFEP Johnston, George W.; Sias, Stacey R.; Petry, Douglas A.  
CLMN Number of Claims: 6  
ECL Exemplary Claim: 1  
DEWN No Drawings  
LN.CNT 1323

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides for superior nucleic acid primers for amplification of select target regions of the genome of the genus Legionella. The invention facilitates detection of pathogenic and nonpathogenic forms of this genus. The invention further provides for processes for using the primers in template dependent nucleic acid polymerase extension reactions to amplify select target regions. Kits for the use of these primers are also provided.

This invention further provides for methods of controlling the intensity of visual signal for detection of duplex formation in nucleic acid hybridization assays under high stringent conditions. This method involves the blending of different capture probes onto a solid support.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 8 USPATFULL  
AN 96:70337 USPATFULL  
TI **Polymerase chain reaction**/restriction fragment length polymorphism method for the detection and typing of

IN Silverstein, Saul J., Irvington, NY, United States  
Lungu, Octavian, New York, NY, United States  
Wright, Jr., Thomas C., Irvington, NY, United States  
PA The Trustees of Columbia University in the City of New York, New York,  
NY, United States (U.S. corporation)  
FI US 5543294 19960806  
AI US 1994-255561 19940608 (8)  
FLI Continuation of Ser. No. US 1992-916940, filed on 20 Jul 1992, now  
abandoned which is a continuation-in-part of Ser. No. US 1991-733109,  
filed on 19 Jul 1991, now abandoned  
IT Utility  
EXNAM Primary Examiner: Elliott, George C.; Assistant Examiner: Brusca, John  
S.  
LREP White, John P.  
CLMN Number of Claims: 6  
ECL Exemplary Claim: 1  
DFWN 23 Drawing Figure(s); 10 Drawing Page(s)  
LN.CNT 1947

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The subject invention provides a method of diagnosing congenital  
adrenal  
hyperplasia in a human subject. The subject invention also provides a  
method of typing a human papillomavirus in a patient infected by a  
human  
papillomavirus. The subject invention further provides a method for  
detecting Mycobacteria in a clinical sample. Finally, the subject  
invention provides a method for typing Mycobacteria in a clinical  
sample  
containing Mycobacteria.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 8 USPATFULL  
AN 96:65466 USPATFULL  
TI In situ **polymerase chain reaction**  
IN Nuovo, Gerard J., Calverton, NY, United States  
Bloch, Will, El Cerrito, CA, United States  
PA Hoffmann-La Roche Inc., Nutley, NJ, United States (U.S. corporation)  
Research Foundation of State of New York, Albany, NY, United States  
(U.S. corporation)  
PI US 5538871 19960723  
AI US 1995-390256 19950217 (8)  
RLI Continuation of Ser. No. US 1991-733419, filed on 23 Jul 1991, now  
abandoned  
DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Sisson, Bradley  
L.  
LREP Gould, George M.; Tramaloni, Dennis P.; Sias, Stacey R.  
CLMN Number of Claims: 24  
ECL Exemplary Claim: 1  
DEWN No Drawings  
LN.CNT 1351

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Improvements to the in situ polymerase chain reaction (PCR), a process  
of in vitro enzymatic amplification of specific nucleic acid sequences  
within the cells where they originate, can be achieved by changing the  
way that the enzymatic reaction is started. Reaction initiation is  
delayed until the start of PCR thermal cycling, either by withholding a  
subset of PCR reagents from the cellular preparation until the  
preparation has been heated to 50.degree. C. to 80.degree. C.,  
immediately before thermal cycling is begun, or by adding to the PCR  
reagents a single-stranded DNA binding protein which blocks reaction at  
temperatures below about 50.degree. C. If the in situ PCR is performed  
on cellular preparations already attached to a microscope slide,  
thermal

compartment designed optimally to hold the microscope slide and any vapor barrier covering the slide.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 8 USPATFULL  
AN 96:36463 USPATFULL  
TI Enzymatic inverse **polymerase chain reaction**  
library mutagenesis  
IN Stemmer, Willem P. C., Carlsbad, CA, United States  
PA Eli Lilly and Company, Indianapolis, IN, United States (U.S.  
corporation)  
FI US 5512463 19960430  
AI US 1994-252057 19940601 (8)  
ECD 20140119  
PLI Continuation of Ser. No. US 1991-806154, filed on 12 Dec 1991, now  
abandoned which is a continuation-in-part of Ser. No. US 1991-691140,  
filed on 26 Apr 1991, now abandoned  
DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Arthur, Lisa  
LREP Knobbe, Martens, Olson & Bear  
CLMN Number of Claims: 27  
ECL Exemplary Claim: 1  
DEWN 7 Drawing Figure(s); 7 Drawing Page(s)  
DI.CNT 1950

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention discloses a method for generating a recombinant library  
by introducing one or more changes within a predetermined region of  
double-stranded nucleic acid, comprising providing a first primer  
population and a second primer population, each of the populations  
having a variable base composition at known positions along the  
primers,  
the primers incorporating a class IIS restriction enzyme recognition  
sequence, being capable of directing change in the nucleic acid  
sequence  
and being substantially complementary to the double stranded nucleic  
acid to permit hybridization thereto. The method additionally comprises  
hybridizing the first and second primer populations to opposite strands  
of the double stranded nucleic acid to form a first pair of  
primer-templates oriented in opposite directions, performing enzymatic  
inverse polymerase chain reaction to generate at least one linear copy  
of the double stranded nucleic acid incorporating the change directed  
by  
the primers, cutting the double stranded nucleic acid copy with a class  
IIS restriction enzyme to form a restricted linear nucleic acid  
molecule  
containing the change, joining termini of the restricted linear nucleic  
acid molecule to produce double-stranded circular nucleic acid and  
introducing the nucleic acid into compatible host cells. A method is  
additionally provided for generating a recombinant library using  
wobble-base mutagenesis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 8 OF 8 USPATFULL  
AN 96:12945 USPATFULL  
TI **PCR** primers for detection of legionella species and methods  
for controlling visual intensity in hybridization assays  
IN Picone, Teresa K. H., Benicia, CA, United States  
McCallum, Theresa M., Pleasant Hill, CA, United States  
Zoccoli, Michael A., Moraga, CA, United States  
PA Hoffmann-La Roche Inc., Nutley, NJ, United States (U.S. corporation)  
PI US 5491225 19960213  
WO 9211273 19920709

WO 1991-US9688 19911219  
19930527 PCT 371 date  
19930527 PCT 102(e) date

DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Sisson, Bradley L.  
LREP Gould, George M.; Sias, Stacey R.; Petry, Douglas A.  
CLMN Number of Claims: 16  
ECL Exemplary Claim: 1  
DEWN No Drawings  
LN.CNT 1301

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides for superior nucleic acid primers for amplification of select target regions of the genome of the genus *Legionella*. The invention facilitates detection of pathogenic and nonpathogenic forms of this genus. The invention further provides for processes for using the primers in template dependent nucleic acid polymerase extension reactions to amplify select target regions. Kits for the use of these primers are also provided. This invention further provides for methods of controlling the intensity of visual signal for detection of duplex formation in nucleic acid hybridization assays

under

high stringent conditions. This method involves the blending of different capture probes onto a solid support.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 14 1 kwic

L4 ANSWER 1 OF 8 USPATFULL

TI Salmonella identification by the **polymerase chain reaction**

SUMM . . . of detection have recently proliferated and are available for detection of DNA or RNA from the target organism. A useful

**review** is found in the article by M. J. Wolcott in J. Food Protection 54, (5), pp. 387-401, 1991, Typical techniques. . .

SUMM . . . altered backbone chains such as PNA where the ribose units of the backbone are replaced by other units such as **amino acids** or peptides but the sequence of bases is retained and the molecule hybridises in the same way as the said. . .

=> d 14 6 kwic

L4 ANSWER 6 OF 8 USPATFULL

TI In situ **polymerase chain reaction**

SUMM . . . the fields of genetics, molecular biology, cellular biology, clinical chemistry, forensic science, and analytical biochemistry, as described in the following **review** volumes and articles: Erlich (ed.), 1989, PCR Technology, Stockton Press (New York); Erlich et al. (eds.), 1989, Polymerase Chain Reaction, . . .

SUMM . . . 86:1193-1197). SSBs possess enough structural similarity to suggest that DNA binding is associated with a consensus structure of alternating aromatic **amino acids** (phenylalanine, tyrosine, and tryptophan) and charged **amino acids** (glutamate, aspartate, lysine, and arginine) (Prasad and Chiu, 1987, J. Mol. Biol. 193:579-584) such that artificial polypeptides might be created. . .

SUMM . . . nucleic acid hybridization methods have evolved to detect target sequences in the cells or organelles where they originated (for

a

6:366-379). Typically, in situ hybridization entails (1) preparation of.

1. . . . 16 genome per human genome, were grown to density of about 10.sup.5 cells/mL in Eagle's minimal essential medium with non-essential

amino acids, sodium pyruvate, and 15% fetal bovine serum, washed two times in Tris-buffered saline, adjusted to an approximate density of 10.sup.4. . . .

=> d his

(FILE 'HOME' ENTERED AT 06:33:32 ON 21 NOV 2000)

FILE 'BIOSIS, MEDLINE, WPIDS, USPATFULL' ENTERED AT 06:33:43 ON 21 NOV 2000

L1 5642 S (PCR OR POLYMERASE CHAIN REACTION) AND REVIEW  
L2 347 S (PCR OR POLYMERASE CHAIN REACTION)/TI AND REVIEW  
L3 8 S L2 AND AMINO ACID?  
L4 8 DUP REM L3 (0 DUPLICATES REMOVED)

= . s l4 and proline

L5 0 L4 AND PROLINE

= . 's l4 and glycine

'S IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

= . s l4 and glycine

L6 1 L4 AND GLYCINE

= . d l6 bib abs

L6 ANSWER 1 OF 1 USPATFULL  
AN 1998:134819 USPATFULL  
TI In situ recombinant PCR within single cells  
IN Embleton, Michael J., Nottingham, United Kingdom  
Gorochov, Guy, Cambridge, United Kingdom  
Jones, Peter T., Cambridge, United Kingdom  
Winter, Gregory P., Cambridge, United Kingdom  
PA Medical Research Council, England (non-U.S. corporation)  
PI US 5830663 19981103  
WO 9303151 19930218  
AI US 1994-190199 19940713 (8)  
WO 1992-GB1483 19920810  
19940713 PCT 371 date  
19940713 PCT 102(e) date  
PPAI GB 1991-17352 19910810  
GB 1992-12419 19920611  
DT Utility  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Fredman, Jeffrey  
LPEP Cushman Darby & Cushman IP Group of Pillsbury Madison & Sutro  
CLMN Number of Claims: 10  
ECL Exemplary Claim: 1  
DRWN 19 Drawing Figure(s); 13 Drawing Page(s)  
LN.CNT 1925

AB Disclosed is a method of treating a heterogeneous population of cells  
to link together copies of two or more nucleic acid sequences from at  
least some of the cells, the arrangement being such that copies of the DNA  
sequences from an individual cell are preferentially linked in the  
vicinity of the nucleic acid from which the copies are derived. Also  
disclosed are recombinant proteins expressed by the method of the  
invention and kits for performing said method.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 16 kwlc

L6 ANSWER 1 OF 1 USPATFULL

TI In situ recombinant **PCR** within single cells

SUMM . . . either associated non-covalently, or via disulphide bonds or  
via a peptide linker. The antigen binding domains are more variable in  
**amino acid** sequence than the other domains of the  
antibody, and are therefore termed variable (V) domains in contrast to  
the constant. . .

SUMM . . . technology have been proposed for making antibodies from  
B-lymphocytes (see Milstein and winter, Nature 349, 293-299 (1991)  
(reference 11) for **review** and references). The key step is the  
cloning of the genes encoding the VH and VL genes directly from  
B-lymphocytes. . .

SUMM . . . is possible that some artificial combinations with binding  
activities may be similar to the original combination, perhaps with a  
few **amino acid** substitutions. Nevertheless it is  
expected that the majority of such artificial antibodies will have

lower affinities than the original combination. . .

DETD . . . 4 more times in 1 ml ice-cold PBS, with vigorous pipetting,  
and

suspended in 0.2-0.5 ml cold PBS containing 0.1M **glycine**. A  
sample was examined microscopically in a haemocytometer, and if clumps  
were present they were dispersed into single cells by. . . through a  
26 gauge hypodermic needle. The cells were then counted and adjusted to  
10.sup.7 per ml in PBS +0.1M **glycine**, and aliquoted into 0.5  
ml tubes (usually 0.05-0.1 ml per tube) and frozen in dry ice. The  
frozen aliquots were. . .

DETD . . . ul

Forward Link primer 0.5 ul

Back Link primer 0.5 ul

dNTPs (5 mM) 2.0 ul

10 .times. PCR buffer  
5.0 ul

Cell template (in PBS/**glycine**)  
10.0 ul

Taq polymerase (5 units/ul)  
0.5 ul

DETD . . . away, leaving the cells at the bottom of the well. The cells  
were then suspended in 0.2 ml of PBS/0.1M **glycine** and spun  
down in a microfuge at 13,000 rpm. After resuspension in the same

buffer they were again spun down for a 2nd wash, then resuspended in 10 .mu.l  
PBS/**glycine** for use as the 2nd stage template. Tubes from the  
BioOven were spun at 13,000 rpm and the supernatant PCR mix removed,

and the cells washed twice in 0.2 ml PBS/**glycine**, before final  
resuspension in 10 ul PBS/**glycine** for use as 2nd stage



DETD . . . were again washed 3 times in ice-cold PBS with vigorous pipetting. A final wash was given in PBS containing 0.1M **glycine**, and the cells were resuspended in 0.2 to 0.5 ml of the same buffer, using a 1 ml syringe and. . .

DETD . . . 42.degree. C. for 1 hour, then the cells were spun down, washed in 200 ul PBS (pH 7.2) containing 0.1M **glycine** (PBS/0.1M **glycine**) and resuspended in 20 ul of the same buffer for use immediately in PCR. For K562 cells, cDNA synthesis was. . .

DETD . . . set up in 50 ul volumes in 0.5 ml Sarstedt tubes with 10 ul fixed template cells in PBS/0.1 M **glycine** buffer, 25 pmol back primer, 25 pmol forward primer, 200 uM dNTPs, 5 ul 10.times. Taq polymerase buffer (Promega) and. . .

DETD . . . sequence, 200 uM dNTPs, 5 ul 10.times.Taq polymerase buffer, 2.5 units Taq polymerase, and 10 ul fixed cells in PBS/0.1M **glycine** buffer. Generally 10 (but sometimes up to 5.times.10.sup.5) cells per tube were used, and the tubes were given 30 cycles. . . and 72.degree. C. for 30 secs. The cells were spun down at 13,000 rpm, washed twice in 200 ul PBS/0.1M **glycine**, and resuspended in 10 ul PBS/**glycine**. To amplify the assembled products, a second PCR was set up with the washed cells, nested primers (23) using 25. . .

DETD . . . (NQ10) fixed cells using the primers MOLFOR, MOJH3FOR, B1-8LFOR and B1-8VHLINK3, and the cells washed and resuspended in PBS/0.1 M **glycine** for PCR assembly. The first PCR was carried out using the VL forward primers MOLFOR and B1-8LFOR and the VH. . .

DETD . . . the hybridoma and leukaemia cells with formal saline, permeabilised them with NP40, and stored the cells frozen in PBS/0.1 M **glycine**. We found that with these cells, our method resulted in high yields of amplified DNA as detected in the cell. . .

DETD Consistently higher yields of amplified DNA were obtained when cells were added to the reaction in their storage buffer (PBS/0.1M **glycine**) rather than water. In NQ10 cells subjected to two-stage PCR assembly in which 10 uCi (25 pmol) .sup.35 S-dATP was. . .

DETD . . . Nonidet P40 (BDH) in water. After a further 3 washes in PBS the cells were suspended in PBS containing 0.1M **glycine** and counted. They were stored frozen at -70.degree. C.

DETD . . . the whole mixture incubated at 42.degree. C. for 1 hour. The cells were then spun down, washed once in PBS/0.1M **glycine** and resuspended in the same buffer for PCR.

DETD The cells were spun down and washed twice in PBS/0.1M **glycine**, and suspended in 10 .mu.l of this buffer for a 2nd PCR together with the

following mix:

DETD (2) INFORMATION FOR SEQ ID NO:61:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 235 **amino acids**

(B) TYPE: **amino acid**

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

GlnValGlnLeuLysGluSerGlyProGlyLeuValAlaProSerGln  
151015

SerLeuSerIleThrCysThrValSerGlyPheSerLeuThrSerTyr  
202530

GlyValHisTrpValArgGlnProProGlyLysGlyLeuGluTrpLeu  
354045

GlyValIleTrpAlaGlyGlySerThrAsnTyrAsnSerAlaLeuMet  
505560

SerArgLeuSerIleSerLysAspAsnSerLysSerGlnValPheLeu  
65707580

LysMetAsnSerLeuGlnThrAspAspThrAlaMetTyrTyrCysAla

ArgAspArgGlyAlaTyrTrpGlyGlnGlyThrLeuValThrValSer  
100105110  
AlaGlyGlyGlyGlySerGlyGlyGlyGlySerGlyGlyGlySer  
115120125  
GlnIleValLeuThrGlnSerProAlaIleMetSerAlaSerProGly  
130135140  
GlnLysValThrMetThrCysSerAlaSerSerSerValSerTyrMet  
145150155160  
HisTrpTyrGlnGlnLysSerGlyThrSerProLysArgTrpIleTyr  
165170175  
AspThrSerLysLeuAlaSerGlyValProAlaArgPheSerGlySer  
180185190  
GlySerAlaThrSerTyrSerLeuThrIleSerSerMetGluAlaGlu  
195200205  
AspAlaAlaThrTyrTyrCysGlnGlnTrpSerSerAsnProLeuThr  
210215220  
PheGlyAlaGlyThrLysLeuGluLeuLysArg  
225230235

DETD (2) INFORMATION FOR SEQ ID NO:63:

(1) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 223 **amino acids**

(B) TYPE: **amino acid**

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:

AspValGlnLeuValGluSerGlyGlyGlyLeuValGlnProGlyGly  
151015  
SerArgLysLeuSerCysAlaAlaSerGlyPheThrPheSerSerPhe  
202530  
GlyMetHisTrpValArgGlnAlaProGluLysGlyLeuGluTrpVal  
354045  
AlaTyrIleSerSerGlySerSerThrIleTyrTyrAlaAspThrVal  
505560  
LysGlyArgPheThrIleSerArgAspAsnProLysAsnThrLeuPhe  
65707580  
LeuGlnMetThrSerLeuArgSerGluAspThrAlaMetTyrTyrCys  
859095  
AlaArgAspTyrGlyAlaTyrTrpGlyGlnGlyThrLeuValThrVal  
100105110  
SerAlaAlaSerGlnIleValLeuThrGlnSerProAlaIleMetSer  
115120125  
AlaSerProGlyGluLysValThrMetThrCysSerAlaSerSerSer  
130135140  
ValArgTyrMetAsnTrpPheGlnGlnLysSerGlyThrSerProLys  
145150155160  
ArgTrpIleTyrAspThrSerLysLeuSerSerGlyValProAlaArg  
165170175  
PheSerGlySerGlySerGlyThrSerTyrSerLeuThrIleSerSer  
180185190  
MetGluAlaGluAspAlaAlaThrTyrTyrCysGlnGlnTrpSerSer  
195200205  
AsnProLeuThrPheGlyAlaGlyThrLysLeuGluLeuLysArg  
210215220

DETD (2) INFORMATION FOR SEQ ID NO:65:

(1) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 236 **amino acids**

(B) TYPE: **amino acid**

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

AspValGlnLeuValGluSerGlyGlyGlyLeuValGlnProGlyGly  
151015  
SerArgLysLeuSerCysAlaAlaSerGlyPheThrPheSerSerPhe  
202530

354045  
 AlaTyrIleSerSerGlySerSerThrIleTyrTyrAlaAspThrVal  
 505560  
 LysGlyArgPheThrIleSerArgAspAsnProLysAsnThrLeuPhe  
 65707580  
 LeuGlnMetThrSerLeuArgSerGluAspThrAlaMetTyrTyrCys  
 859095  
 AlaArgAspTyrGlyAlaTyrTrpGlyGlnGlyThrLeuValThrVal  
 100105110  
 SerAlaGlyGlyGlyGlySerGlyGlyGlyGlySerGlyGlyGlyGly  
 115120125  
 SerGlnIleValLeuThrGlnSerProAlaIleMetSerAlaSerPro  
 130135140  
 GlyGluLysValThrMetThrCysSerAlaSerSerSerValArgTyr  
 145150155160  
 MetAsnTrpPheGlnGlnLysSerGlyThrSerProLysArgTrpIle  
 165170175  
 TyrAspThrSerLysLeuSerSerGlyValProAlaArgPheSerGly  
 180185190  
 SerGlySerGlyThrSerTyrSerLeuThrIleSerSerMetGluAla  
 195200205  
 GluAspAlaAlaThrTyrTyrCysGlnGlnTrpSerSerAsnProLeu  
 210215220  
 ThrPheGlyAlaGlyThrLysLeuGluLeuLysArg  
 225230235

RETD (2) INFORMATION FOR SEQ ID NO:67:

(1) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 222 **amino acids**

(B) TYPE: **amino acid**

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

GlnValGlnLeuLysGluSerGlyProGlyLeuValAlaProSerGln  
 151015  
 SerLeuSerIleThrCysThrValSerGlyPheSerLeuThrSerTyr  
 202530  
 GlyValHisTrpValArgGlnProProGlyLysGlyLeuGluTrpLeu  
 354045  
 GlyValIleTrpAlaGlyGlySerThrAsnTyrAsnSerAlaLeuMet  
 505560  
 SerArgLeuSerIleSerLysAspAsnSerLysSerGlnValPheLeu  
 65707580  
 LysMetAsnSerLeuGlnThrAspAspThrAlaMetTyrTyrCysAla  
 859095  
 ArgAspArgGlyAlaTyrTrpGlyGlnGlyThrLeuValThrValSer  
 100105110  
 AlaAlaSerGlnIleValLeuThrGlnSerProAlaIleMetSerAla  
 115120125  
 SerProGlyGlnLysValThrMetThrCysSerAlaSerSerSerVal  
 130135140  
 SerTyrMetHisTrpTyrGlnGlnLysSerGlyThrSerProLysArg  
 145150155160  
 TrpIleTyrAspThrSerLysLeuAlaSerGlyValProAlaArgPhe  
 165170175  
 SerGlySerGlySerAlaThrSerTyrSerLeuThrIleSerSerMet  
 180185190  
 GluAlaGluAspAlaAlaThrTyrTyrCysGlnGlnTrpSerSerAsn  
 195200205  
 ProLeuThrPheGlyAlaGlyThrLysLeuGluLeuLysArg  
 210215220

=> d his

FILE 'BIOSIS, MEDLINE, WPIDS, USPATFULL' ENTERED AT 06:33:43 ON 21 NOV 2000

L1 5642 S (PCR OR POLYMERASE CHAIN REACTION) AND REVIEW  
L2 347 S (PCR OR POLYMERASE CHAIN REACTION)/TI AND REVIEW  
L3 8 S L2 AND AMINO ACID?  
L4 8 DUP REM L3 (0 DUPLICATES REMOVED)  
L5 0 S L4 AND PROLINE  
L6 1 S L4 AND GLYCINE

= s polymerase same proline

L7 0 POLYMERASE SAME PROLINE

= s polymerase same glycine

L8 0 POLYMERASE SAME GLYCINE

= s polymerase same amino acid?

L9 0 POLYMERASE SAME AMINO ACID?

= s polymerase (20a) amino acid?

L10 6850 POLYMERASE (20A) AMINO ACID?

= s polymerase (10a) amino acid?

L11 3427 POLYMERASE (10A) AMINO ACID?

= s polymerase (5a) AMINO ACID?

L12 1569 POLYMERASE (5A) AMINO ACID?

= S POLYMERASE (3A) AMINO ACID?

L13 823 POLYMERASE (3A) AMINO ACID?

= D L13 BIB ABS KWIC 1-5

L13 ANSWER 1 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS

AN 2000:490047 BIOSIS

DN PREV200000490168

TI Structural study of the N-terminal domain of the alpha subunit of Escherichia coli RNA polymerase solubilized with non-denaturing detergents.

AU Otomo, Takanori; Yamazaki, Toshio; Murakami, Katsuhiko; Ishihama, Akira; Kyogoku, Yoshimasa (1)

CS (1) Fukui Institute of Technology, 3-6-1 Gakuen, Fukui, 910-8505 Japan

SO Journal of Biochemistry (Tokyo), (Aug., 2000) Vol. 128, No. 2, pp. 337-344. print.

ISSN: 0021-924X.

DT Article

LA English

SL English

AB The amino-terminal domain of the alpha subunit (alphaNTD) of Escherichia coli RNA **polymerase** consisting of 235 **amino acid** residues functions in the assembly of the alpha, beta, and beta' subunits into the core-enzyme. It has a tendency to form aggregates by itself at higher concentrations. For NMR structural analysis of alphaNTD, the solution conditions, including the use of non-denaturing detergents, were optimized by monitoring the translational diffusion

conditions with taurodeoxycholate and with the aid of deuteration of the sample, alphaNTD gave triple-resonance spectra of good quality, which allowed the assignment of a large part of the backbone resonances. Analysis of the pattern of NOEs observed between the backbone amide and alpha-protons demonstrated that alphaNTD has three alpha-helices and two beta-sheets. Although the secondary structure elements essentially coincide with those in the crystal structure, the larger of the two beta-sheets has two additional beta-strands. The irregular NOE patterns observed for the three positions in the beta-sheets suggest the presence of beta-bulge structures. The positions of the three helices coincide with the conserved sequence regions that are responsible for the subunit assembly.

AB The amino-terminal domain of the alpha subunit (alphaNTD) of Escherichia coli RNA **polymerase** consisting of 235 **amino acid** residues functions in the assembly of the alpha, beta, and beta' subunits into the core-enzyme. It has a tendency to. . .

L13 ANSWER 2 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS

AN 2000:466776 BIOSIS

DN PREV200000466776

TI Iridovirus homologues of cellular genes: Implications for the molecular evolution of large DNA viruses.

AU Tidona, Christian A. (1); Darai, Gholamreza (1)

CS (1) Institut fuer Medizinische Virologie, Universitaet Heidelberg, Im Neuenheimer Feld 324, D-69120, Heidelberg Germany

SO Virus Genes, (August, 2000) Vol. 21, No. 1-2, pp. 77-81. print. ISSN: 0920-8569.

DT General Review

LA English

SL English

AB Iridoviruses belong to the group of large cytoplasmic deoxyriboviruses and

infect either insects or vertebrates. In analogy to other large DNA viruses of eucaryotes it was found that iridoviruses encode a number of cellular protein homologues. The majority of these proteins represent orthologues of cellular enzymes involved in transcription, replication

and nucleotide metabolism. Others may have the potential to interfere with cell cycle regulation or immune defence mechanisms of the host. This raises the question about the phylogenetic origin of the corresponding viral genes. During the evolution of large cytoplasmic DNA viruses such

as iridoviruses, poxviruses, and African swine fever virus the acquirement of cellular genes appears to be a crucial event. Each member of this group

of viruses encodes a DNA polymerase, two subunits of the DNA-dependent RNA polymerase, and two subunits of the ribonucleotide reductase. It is important to note that all of these viral proteins show a high level of multidomain structure conservation as compared to their cellular orthologues. As a consequence the large cytoplasmic DNA viruses have the ability to replicate independently of the cellular nucleus in the cytoplasm of the infected cell. Assuming a common cellular origin of viral DNA **polymerase** genes the corresponding **amino acid** sequences were chosen to construct a phylogenetic tree showing the relatedness among large DNA viruses of eucaryotes.

AB. . . of the cellular nucleus in the cytoplasm of the infected cell. Assuming a common cellular origin of viral DNA **polymerase** genes the corresponding **amino acid** sequences were chosen to construct a phylogenetic tree showing the relatedness among large DNA viruses of eucaryotes.

L13 ANSWER 3 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS

DN PREV200000452895  
 TI Hydrophobic interactions in the hinge domain of DNA polymerase beta are important but not sufficient for maintaining fidelity of DNA synthesis.  
 AU Opresko, Patricia L.; Shiman, Ross; Eckert, Kristin A. (1)  
 CS (1) Department of Biochemistry and Molecular Biology, Jake Gittlen Cancer Research Institute, Pennsylvania State University College of Medicine, M. S. Hershey Medical Center, Hershey, PA, 17033 USA  
 SO Biochemistry, (September 19, 2000) Vol. 39, No. 37, pp. 11399-11407. print.  
 ISSN: 0006-2960.  
 DT Article  
 LA English  
 SL English  
 AB We previously described a general mutator form of mammalian DNA polymerase beta containing a cysteine substitution for tyrosine 265. Residue 265 localizes to a hydrophobic hinge region predicted to mediate a polymerase conformational change that may aid in nucleotide selectivity. In this study we tested the hypothesis that van der Waals and hydrophobic contacts between Y265 and neighboring residues are important for DNA synthesis fidelity and catalysis, by altering interactions in the hinge domain via substitution at position 265. Consistent with the importance of hydrophobic interactions, we found that phenylalanine, leucine, and tryptophan substitutions did not alter significantly the steady-state catalytic efficiency of DNA synthesis, relative to wild type, while the polar serine substitution decreased catalytic efficiency 6-fold. However, we found that all substitutions other than phenylalanine increased the error frequency, relative to wild type, in the order serine > tryptophan = leucine. Therefore, maintenance of the hydrophobicity of residue 265 was not sufficient for maintaining fidelity of DNA synthesis. We conclude that while hydrophobic interactions in the hinge domain are important for fidelity, additional factors such as electrostatic and van der Waals interactions contributed by the tyrosine 265 aromatic ring are required to retain wild-type fidelity.  
 IT . . . .  
 Enzymology (Biochemistry and Molecular Biophysics); Molecular Genetics (Biochemistry and Molecular Biophysics)  
 IT Chemicals & Biochemicals  
 DNA: catalysis, synthesis fidelity; DNA **polymerase** beta: **amino acid** substitution, hinge domain, hydrophobic interactions  
 L13 ANSWER 4 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS  
 AN 2000:388446 BIOSIS  
 DN PREV200000388446  
 TI Partial sequence of porcine reproductive and respiratory syndrome virus strain VR-2402 ORF1b.  
 AU Petermann, S. R. (1); Rybolt, R. A. (1); Doetkott, D. M. (1); Berry, E. S. (1); Rust, L. (1)  
 CS (1) North Dakota State Univ., Fargo, ND USA  
 SO Abstracts of the General Meeting of the American Society for Microbiology, (2000) Vol. 100, pp. 637. print.  
 Meeting Info.: 100th General Meeting of the American Society for Microbiology Los Angeles, California, USA May 21-25, 2000 American Society for Microbiology  
 . ISSN: 1060-2011.  
 DT Conference

SL English  
IT Major Concepts  
Enzymology (Biochemistry and Molecular Biophysics); Molecular Genetics  
(Biochemistry and Molecular Biophysics)  
IT Chemicals & Biochemicals  
RNA; RNA-dependent RNA **polymerase**; **amino acid** sequence, analysis; amino acids; enzymes;  
oligonucleotides; proteins

L13 ANSWER 5 OF 823 BIOSIS COPYRIGHT 2000 BIOSIS

AN 2000:382668 BIOSIS

DN FREV2000000382668

TI The role of steric hindrance in 3TC resistance of human immunodeficiency virus type-1 reverse transcriptase.

AU Gao, Hong-Qiang; Boyer, Paul L.; Sarafianos, Stefan G.; Arnold, Edward; Hughes, Stephen H. (1)

CS (1) HIV Drug Resistance Program, National Cancer Institute-FCRDC, Building  
539, Room 130A, Frederick, MD, 21702-1201 USA

SO Journal of Molecular Biology, (7 July, 2000) Vol. 300, No. 2, pp.  
403-413.

print.

ISSN: 0022-2836.

DT Article

LA English

SL English

AB Treating HIV infections with drugs that block viral replication selects for drug-resistant strains of the virus. Particular inhibitors select characteristic resistance mutations. In the case of the nucleoside

analogs

3TC and FTC, resistant viruses are selected with mutations at amino acid residue 184 of reverse transcriptase (RT). The initial change is usually to M184I; this virus is rapidly replaced by a variant carrying the mutation M184V. 3TC and FTC are taken up by cells and converted into

3TCTP

and FTCTP. The triphosphate forms of these nucleoside analogs are incorporated into DNA by HIV-1 RT and act as chain terminators. Both of the mutations, M184I and M184V, provide very high levels of resistance in vivo; purified HIV-1 RT carrying M184V and M184I also shows resistance to 3TCTP and FTCTP in in vitro **polymerase** assays. **Amino acid** M184 is part of the dNTP binding site of HIV-1 RT. Structural studies suggest that the mechanism of resistance of HIV-1 RTs carrying

the

M184V or M184I mutation involves steric hindrance, which could either completely block the binding of 3TCTP and FTCTP or allow binding of these nucleoside triphosphate molecules but only in a configuration that would prevent incorporation. The available kinetic data are ambiguous: one

group

has reported that the primary effect of the mutations is at the level of 3TCTP binding; another, at the level of incorporation. We have approached this problem using assays that monitor the ability of HIV-1 RT to undergo a conformational change upon binding a dNTP. These studies show that both wild-type RT and the drug-resistant variants can bind 3TCTP at the polymerase active site; however, the binding to M184V and M184I is somewhat weaker and is sensitive to salt. We propose that the drug-resistant variants bind 3TCTP in a strained configuration that is salt-sensitive and is not catalytically competent.

AB. . . resistance in vivo; purified HIV-1 RT carrying M184V and M184I also shows resistance to 3TCTP and FTCTP in in vitro **polymerase** assays. **Amino acid** M184 is part of the dNTP binding site of HIV-1 RT. Structural studies suggest that the mechanism of resistance of. . .

(FILE 'HOME' ENTERED AT 06:33:32 ON 21 NOV 2000)

FILE 'BIOSIS, MEDLINE, WPIDS, USPATFULL' ENTERED AT 06:33:43 ON 21 NOV 2000

L1	5642 S (PCR OR POLYMERASE CHAIN REACTION) AND REVIEW
L2	347 S (PCR OR POLYMERASE CHAIN REACTION)/TI AND REVIEW
L3	8 S L2 AND AMINO ACID?
L4	8 DUP REM L3 (0 DUPLICATES REMOVED)
L5	0 S L4 AND PROLINE
L6	1 S L4 AND GLYCINE
L7	0 S POLYMERASE SAME PROLINE
L8	0 S POLYMERASE SAME GLYCINE
L9	0 S POLYMERASE SAME AMINO ACID?
L10	6850 S POLYMERASE (20A) AMINO ACID?
L11	3427 S POLYMERASE (10A) AMINO ACID?
L12	1569 S POLYMERASE (5A) AMINO ACID?
L13	823 S POLYMERASE (3A) AMINO ACID?



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COMPSN.USPT.	162
COMPSNS.USPT.	37
COMPOSITIONS.USPT.	305090
PCR.USPT.	16963
PCRS.USPT.	535
AMINO.USPT.	187262
AMINOES.USPT.	1
AMINOS.USPT.	296
AMINOE.USPT.	45
(L4 AND COMPOSITION SAME PCR SAME AMINO ACID ) .USPT.	25

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JPO Abstracts Database

EPO Abstracts Database

Derwent World Patents Index

Database: IBM Technical Disclosure Bulletins

Refine Search: 14 and composition same pcr same amino acid

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## Search History

Today's Date: 11/20/2000


US Patents Full-Text Database

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	14 and composition same per same amino acid	25	<u>L5</u>
USPT	12 same nucleic adj acid	1556	<u>L4</u>
USPT	12 and nucleic adj acid	5288	<u>L3</u>
USPT	per same amino adj acid	5497	<u>L2</u>
USPT	6110900.pn. and amino adj acid	1	<u>L1</u>

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## Search Results - Record(s) 1 through 10 of 25 returned.

☒ 1. Document ID: US 6135941 A

L5: Entry 1 of 25

File: USPT

Oct 24, 2000

US-PAT-NO: 6135941

DOCUMENT-IDENTIFIER: US 6135941 A

TITLE: Human immune system associated molecules

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6130045 A

L5: Entry 2 of 25

File: USPT

Oct 10, 2000

US-PAT-NO: 6130045

DOCUMENT-IDENTIFIER: US 6130045 A

TITLE: Thermostable polymerase

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6130077 A

L5: Entry 3 of 25

File: USPT

Oct 10, 2000

US-PAT-NO: 6130077

DOCUMENT-IDENTIFIER: US 6130077 A

TITLE: Human cytochrome P450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6069229 A

L5: Entry 4 of 25

File: USPT

May 30, 2000

US-PAT-NO: 6069229

DOCUMENT-IDENTIFIER: US 6069229 A

TITLE: Mammalian proteinases; oxidoreductases; related reagents

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6030835 A

L5: Entry 5 of 25

File: USPT

Feb 29, 2000

US-PAT-NO: 6030835

DOCUMENT-IDENTIFIER: US 6030835 A

TITLE: Methods and composition for identifying group a streptococcus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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☐ 6. Document ID: US 6025465 A

L5: Entry 6 of 25

File: USPT

Feb 15, 2000

US-PAT-NO: 6025465

DOCUMENT-IDENTIFIER: US 6025465 A

TITLE: Insulin-like growth factor binding protein (IGFBP-6)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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☐ 7. Document ID: US 5981259 A

L5: Entry 7 of 25

File: USPT

Nov 9, 1999

US-PAT-NO: 5981259

DOCUMENT-IDENTIFIER: US 5981259 A

TITLE: CD4+ T-lymphocyte protease genes and inhibitors thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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☐ 8. Document ID: US 5968744 A

L5: Entry 8 of 25

File: USPT

Oct 19, 1999

US-PAT-NO: 5968744

DOCUMENT-IDENTIFIER: US 5968744 A

TITLE: Human cornichon molecule

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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☐ 9. Document ID: US 5928874 A

L5: Entry 9 of 25

File: USPT

Jul 27, 1999

US-PAT-NO: 5928874

DOCUMENT-IDENTIFIER: US 5928874 A

TITLE: Nek1-related protein kinase

10. Document ID: US 5922595 A

L5: Entry 10 of 25

File: USPT

Jul 13, 1999

US-PAT-NO: 5922595

DOCUMENT-IDENTIFIER: US 5922595 A

TITLE: Cyclic GMP phosphodiesterase

Generate Collection

Term	Documents
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COMPSNS.USPT.	37
COMPOSITIONS.USPT.	305090
PCR.USPT.	16963
PCRS.USPT.	535
AMINO.USPT.	187262
AMINOES.USPT.	1
AMINOS.USPT.	296
AMINOE.USPT.	45
(L4 AND COMPOSITION SAME PCR SAME AMINO ACID .USPT.	25

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